



STIC Search Report

EIC 3700

STIC Database Tracking Number: 129879

TO: Kurt Fernstrom
Location: cp2 10b14
Art Unit: 3712
Monday, August 16, 2004

Case Serial Number: 10/673877

From: Emory Damron
Location: EIC 3700
CP2-2C08
Phone: 305-8587

Emory.Damron@uspto.gov

Search Notes

Dear Kurt,

Please find below an inventor search in the bibliographic and full-text foreign patent files, as well as keyword searches in the patent and non-patent literature files, both bibliographic and full text.

References of potential pertinence have been tagged, but please review all the packets in case you like something I didn't.

In addition to searching on Dialog, I also searched Google.com, EPO/JPO/Derwent, and Google Catalogs.

I don't think I really found anything all that good with the exception of a Japanese application, assigned to Sente, JP 08019673; the closest art was to the applicant, a pregrant pub, US 2003/0194691, which no doubt you are aware of.

Please contact me if I can refocus or expand any aspect of this case, and please take a moment to provide any feedback (on the form provided) so EIC 3700 may better serve your needs.

Sincerely,

Emory Damron

Technical Information Specialist

EIC 3700, US Patent & Trademark Office

Phone: (703) 305-8587/ Fax: (703) 306-5915

Emory.damron@uspto.gov



Access DB# 129879**SEARCH REQUEST FORM****Scientific and Technical Information Center**

Requester's Full Name: Kurt Ferston Examiner #: 75063 Date: 8/13/04
Art Unit: 2712 Phone Number 30 5-0303 Serial Number: 10/673,877
Mail Box and Bldg/Room Location: CP2 10B14 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Sensory Feedback Educational Tool

Inventors (please provide full names): Donna James

Earliest Priority Filing Date: 4/15/02

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Focus on claims 1 and 7

STAFF USE ONLY**Type of Search****Vendors and cost where applicable**

Searcher: <u>Emory Dameron</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>305 8587</u>	AA Sequence (#) _____	Dialog <u>X</u> <u>\$33.46</u>
Searcher Location: <u>CP22C8</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>8/16/04 11AM</u>	Bibliographic <u>X</u>	Dr.Link _____
Date Completed: <u>8/16/04 3458</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>130m</u>	Fulltext <u>X</u>	Sequence Systems _____
Clerical Prep Time: <u>Q</u>	Patent Family _____	WWW/Internet <u>X</u>
Online Time: <u>130m</u>	Other _____	Other (specify) _____



STIC Search Results Feedback Form

EIC 3700

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

John Sims, EIC 3700 Team Leader
308-4836, CP2-2C08

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: 3712 Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC3700 CP2 2C08



Set	Items	Description
S1	432	AU=(JAMES D? OR JAMES, D?)
S2	0	DONNA(2N)JAMES
S3	7144	(FEEDBACK? OR FEED?()BACK) AND (SENSORY OR OLFACTOR? OR AR- OMA OR SMELL OR SCENT OR ODOR OR ODOUR OR SIGHT OR VISION OR - VISUAL OR MOVEMENT OR MOTION OR KINETIC?)
S4	107332	IC=(B43L? OR G09B? OR A63H?)
S5	4	S1:S2 AND S3:S4
S6	4	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200452
(c) 2004 Thomson Derwent

6/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015704832 **Image available**
WPI Acc No: 2003-767025/200372
XRPX Acc No: N03-614482

Sensory feedback education tool for teaching student such as child to
read and write, has indicia disposed on writing surface to provide
additional sensory feedback to student while using tool

Patent Assignee: JAMES D (JAME-I)

Inventor: JAMES D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030194691	A1	20031016	US 2002121797	A	20020415	200372 B

Priority Applications (No Type Date): US 2002121797 A 20020415

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20030194691	A1	7	B43L-001/00	
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Sensory feedback education tool for teaching student such as child to
read and write, has indicia disposed on writing surface to provide
additional sensory feedback to student while using tool

Inventor: JAMES D

Abstract (Basic):

... a displaceable writing medium. Indicia (32) are disposed on the
writing surface to provide additional **sensory feedback** to a student
while using the tool.

... a writing medium. An INDEPENDENT CLAIM is also included for an
educational device for providing **visual** and tactile **feedback** to
students learning reading and writing skills...

...For teaching student such as child to read and write by providing
visual and tactile **feedback** to student...

...just his or her finger, without use of chalk or pencils. Enables child
to receive **visual** and tactile **feedback** while writing in the salt.

Motivates use of tool and fun of using the tool...

...Title Terms: **FEEDBACK** ;

International Patent Class (Main): **B43L-001/00**

Set	Items	Description
S1	262	AU=(JAMES D? OR JAMES, D?)
S2	0	DONNA(2N)JAMES
S3	42909	(FEEDBACK? OR FEED?()BACK) AND (SENSORY OR OLFACTOR? OR AR- OMA OR SMELL OR SCENT OR ODOR OR ODOUR OR SIGHT OR VISION OR - VISUAL OR MOVEMENT OR MOTION OR KINETIC?)
S4	9185	IC=(B43L? OR G09B? OR A63H?)
S5	11	S1:S2 AND S3:S4
S6	11	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 348:EUROPEAN PATENTS 1978-2004/Aug W02
(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805
(c) 2004 WIPO/Univentio

← Q
SIGNIFICANT
HITS AFTER
REVIEW

Set	Items	Description
S1	5219	AU=(JAMES D? OR JAMES, D?)
S2	64	DONNA(2N)JAMES
S3	54942	(FEEDBACK? OR FEED?())BACK) AND (SENSORY OR OLFACTOR? OR AR- OMA OR SMELL OR SCENT OR ODOR OR ODOUR OR SIGHT OR VISION OR - VISUAL OR MOVEMENT OR MOTION OR KINETIC?)
S4	0	S1:S2 AND S3
? show files		
File	1:ERIC 1966-2004/Jul 21	(c) format only 2004 The Dialog Corporation
File	2:INSPEC 1969-2004/Aug W2	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Aug W3	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	7:Social SciSearch(R) 1972-2004/Aug W2	(c) 2004 Inst for Sci Info
File	8:Ei Compendex(R) 1970-2004/Aug W2	(c) 2004 Elsevier Eng. Info. Inc.
File	11:PsycINFO(R) 1887-2004/May W5	(c) 2004 Amer. Psychological Assn.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W2	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/May	(c) 2004 ProQuest Info&Learning
File	48:SPORTDiscus 1962-2004/Aug	(c) 2004 Sport Information Resource Centre
File	50:CAB Abstracts 1972-2004/Jul	(c) 2004 CAB International
File	65:Inside Conferences 1993-2004/Aug W2	(c) 2004 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2004/Jul W4	(c)2004 Japan Science and Tech Corp(JST)
File	95:TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	(c) 2004 The HW Wilson Co.
File	111:TGG Natl.Newspaper Index(SM) 1979-2004/Aug 11	(c) 2004 The Gale Group
File	121:Brit.Education Index 1976-2004/Q2	(c) 2004 British Education Index
File	142:	
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	437:	
File	473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02	(c) 2001 THE NEW YORK TIMES
File	474:New York Times Abs 1969-2004/Aug 15	(c) 2004 The New York Times
File	475:Wall Street Journal Abs 1973-2004/Aug 13	(c) 2004 The New York Times
File	481:DELPHEs Eur Bus 95-2004/Jul W4	(c) 2004 ACFCI & Chambre CommInd Paris
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	(c) 2002 The Gale Group
?		

Set	Items	Description
S1	1633	AU=(JAMES D? OR JAMES, D?)
S2	643	DONNA(2N)JAMES
S3	135544	(FEEDBACK? OR FEED?()BACK) AND (SENSORY OR OLFACTOR? OR AR- OMA OR SMELL OR SCENT OR ODOR OR ODOUR OR SIGHT OR VISION OR - VISUAL OR MOVEMENT OR MOTION OR KINETIC?)
S4	11	S1:S2 AND S3
S5	8	RD (unique items)
? show files		
File	9:Business & Industry(R)	Jul/1994-2004/Aug 13
	(c) 2004	The Gale Group
File	15:ABI/Inform(R)	1971-2004/Aug 16
	(c) 2004	ProQuest Info&Learning
File	16:Gale Group PROMT(R)	1990-2004/Aug 16
	(c) 2004	The Gale Group
File	20:Dialog Global Reporter	1997-2004/Aug 16
	(c) 2004	The Dialog Corp.
File	47:Gale Group Magazine DB(TM)	1959-2004/Aug 16
	(c) 2004	The Gale group
File	80:TGG Aerospace/Def.Mkts(R)	1986-2004/Aug 16
	(c) 2004	The Gale Group
File	88:Gale Group Business A.R.T.S.	1976-2004/Aug 13
	(c) 2004	The Gale Group
File	141:Readers Guide	1983-2004/Jul
	(c) 2004	The HW Wilson Co
File	148:Gale Group Trade & Industry DB	1976-2004/Aug 16
	(c)2004	The Gale Group
File	160:Gale Group PROMT(R)	1972-1989
	(c) 1999	The Gale Group
File	436:Humanities Abs Full Text	1984-2004/Jul
	(c) 2004	The HW Wilson Co
File	482:Newsweek	2000-2004/Aug 12
	(c) 2004	Newsweek, Inc.
File	484:Periodical Abs Plustext	1986-2004/Aug W1
	(c) 2004	ProQuest
File	570:Gale Group MARS(R)	1984-2004/Aug 16
	(c) 2004	The Gale Group
File	609:Bridge World Markets	2000-2001/Oct 01
	(c) 2001	Bridge
File	610:Business Wire	1999-2004/Aug 15
	(c) 2004	Business Wire.
File	613:PR Newswire	1999-2004/Aug 14
	(c) 2004	PR Newswire Association Inc
File	621:Gale Group New Prod. Annou. (R)	1985-2004/Aug 16
	(c) 2004	The Gale Group
File	635:Business Dateline(R)	1985-2004/Aug 14
	(c) 2004	ProQuest Info&Learning
File	636:Gale Group Newsletter DB(TM)	1987-2004/Aug 16
	(c) 2004	The Gale Group
File	646:Consumer Reports	1982-2004/Aug
	(c) 2004	Consumer Union
File	649:Gale Group Newswire ASAP(TM)	2004/Aug 10
	(c) 2004	The Gale Group
File	809:Bridge World Markets News	1989-1999/Dec 31
	(c) 1999	Bridge
File	810:Business Wire	1986-1999/Feb 28
	(c) 1999	Business Wire
File	813:PR Newswire	1987-1999/Apr 30
	(c) 1999	PR Newswire Association Inc

?



Q SIGNIFICANT

HITS

AFTER
REVIEW

DERWENT-ACC-NO: 1996-123321

DERWENT-WEEK: 199613

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TITLE: Magic slate composed of minute fine
particle - has pointed part of movable body with
magnet part interlocking with pen point tracing
screen making back of screen come in contact with minute
fine particles

PATENT-ASSIGNEE: SENTE CREATIONS KK[SENTN]

PRIORITY-DATA: 1994JP-0177755 (July 7, 1994)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 08019673 A		January 23, 1996	N/A
009	A63H 033/00		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP 08019673A	N/A	
1994JP-0177755	July 7, 1994	

INT-CL (IPC): A63H033/00

ABSTRACTED-PUB-NO: JP 08019673A

BASIC-ABSTRACT:

The slate is composed of a minute fine particle (23) which is installed in the airtight container. A screen (14) is placed on top of the minute fine particle. A movable body (30) is installed between the minute fine particle and the screen. The movable body is composed of a magnet part and a pointed

part.

A pen (20) with a point enables tracing on the screen through the interlocking of the penpoint. The penpoint disposes the magnet part of the movable body moving the body beneath the screen. The movable body makes the lower surface of the screen make contact with minute fine particle within the container.

ADVANTAGE - No dial operations required.

CHOSEN-DRAWING: Dwg.2/17

DERWENT-CLASS: P36

(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11)特許出願公開番号

特開平8-19673

(43)公開日 平成8年(1996)1月23日

(51) Int.Cl.⁶

A 6 3 H 33/00

識別記号

304 A

庁内整理番号

FI

技術表示箇所

審査請求 未請求 請求項の数 8 F D (全 9 頁)

(21)出願番号 特願平6-177755

(22)出願日 平成6年(1994)7月7日

(71)出願人 000132633

株式会社センテクリエーションズ
東京都文京区湯島3丁目31番1号

(72) 発明者 亀井 広可

東京都文京区湯島3丁目31番1号 株式会社
センテクリエーションズ内

(72) 発明者 杉山 実

東京都文京区湯島3丁目31番1号 株式会社センテクリエーションズ内

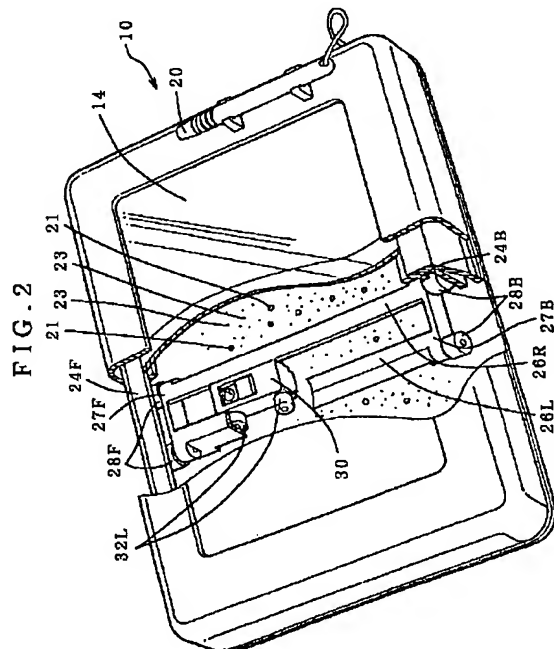
(74)代理人 弁理士 堀 和子 (外1名)

(54) 【発明の名称】 絵描き玩具

(57) 【要約】

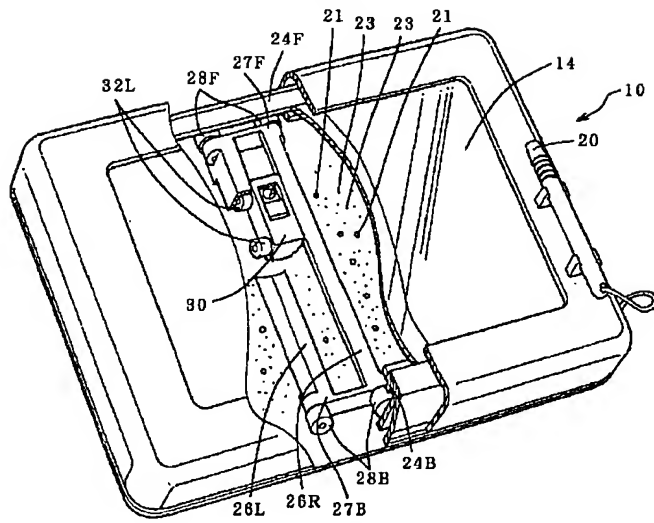
【目的】 遊戯者がペンを自分の手で動かすことにより、思い通りの線図を描くことのできる絵描き玩具を提供する。

【構成】 絵描き玩具（１０，５０）は、上面に透明画面（１４，５４）を有する密閉容器に微粉体２３が収納され、画面（１４，５４）の裏面に微粉体２３を付着させ、微粉体２３を移動自在な可動部材（３０，８０）の先端で削り落とすことにより画面に線を描くことのできる絵描き玩具において、可動部材（３０，８０）は近接する磁石部（４２）と先端部（４０）、又は磁石部（８８）と一体の先端部（８９）を具備し、先端に磁石（２２）を配備したペン（２０）の先端で画面（１４，５４）をなぞることにより可動部材（３０，８０）の磁石部（４２，８８）をペン先と連動させ、可動部材（３０，８０）の先端部が画面（１４，５４）の裏面に接触しながら移動するように構成されている。



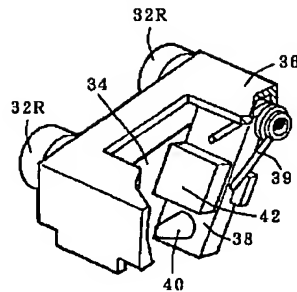
【図2】

FIG. 2



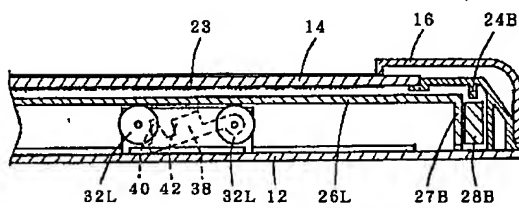
【図4】

FIG. 4



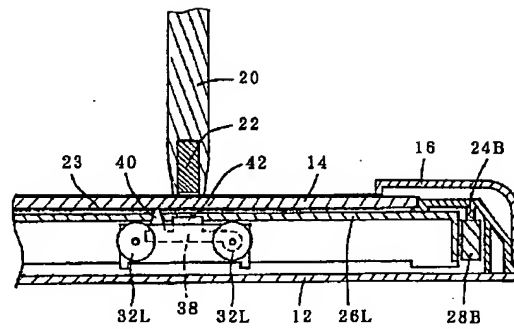
【図5】

FIG. 5



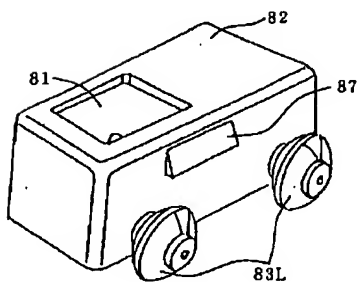
【図6】

FIG. 6



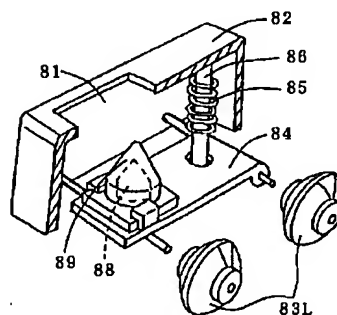
【図10】

FIG. 10



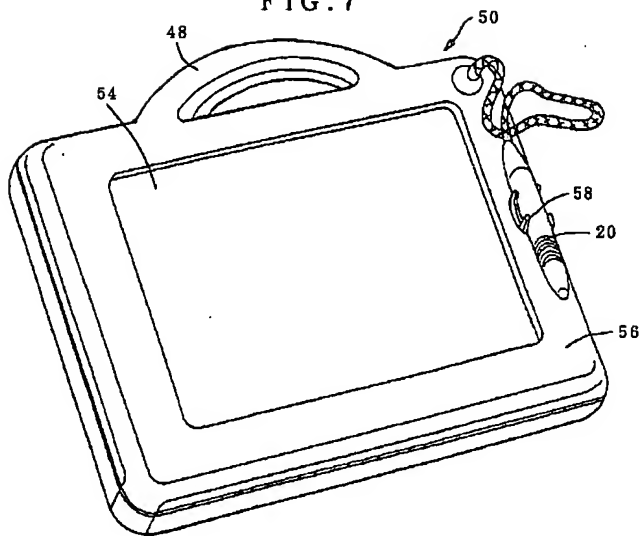
【図11】

FIG. 11



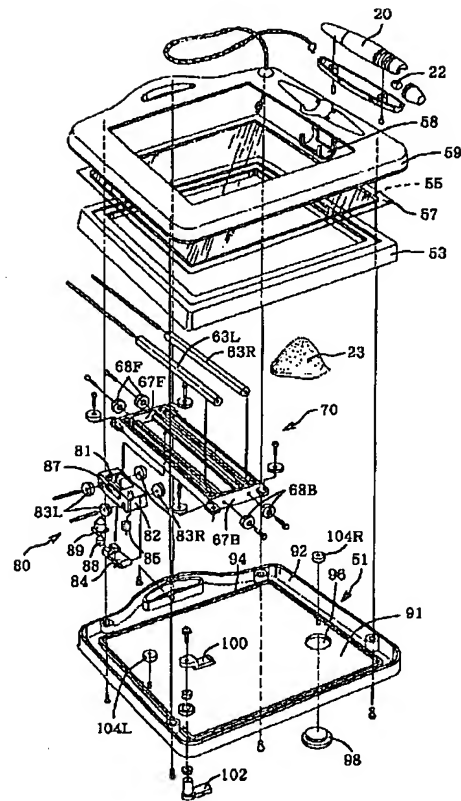
【図7】

FIG. 7



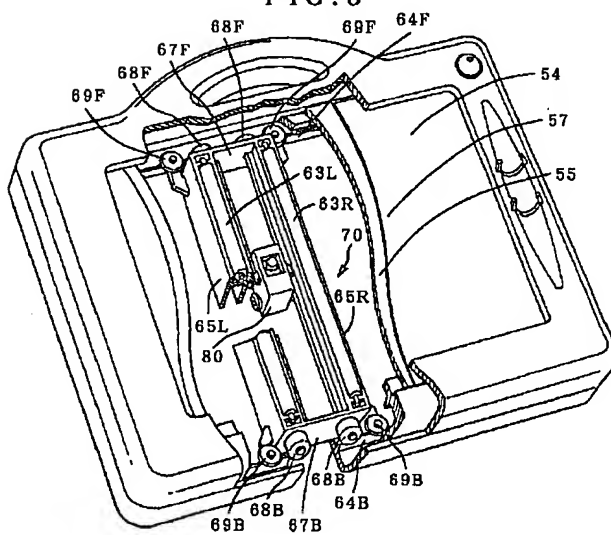
【図9】

FIG. 9



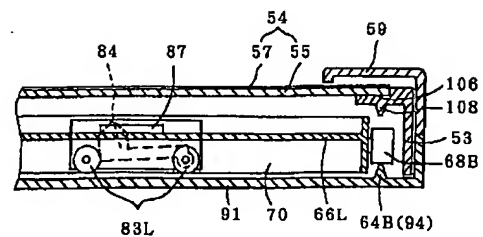
【図8】

FIG. 8



【図12】

FIG. 12



Set	Items	Description
S1	6639	(READING OR WRITING) (3N) (TABLET? OR SURFACE? OR SLATE? OR - BOARD?)
S2	3135	CHALKBOARD? OR BLACKBOARD?
S3	587902	WRITING (3N) (MEDIUM OR SUBSTANCE) OR SALT OR SAND OR RICE OR CORNSTARCH? OR CORN() STARCH?
S4	847	(FEEDBACK? OR FEED?()) BACK) (10N) (SENSORY OR OLFACTOR? OR AROMA? OR ODOR? OR ODOUR? OR SCENT? OR SIGHT? OR VISION? OR VISUAL? OR TOUCH? OR KINETIC?)
S5	2213	(FEEDBACK? OR FEED?()) BACK) (10N) (MOVEMENT? OR MOTION? OR TACTIL? OR PEPPERMINT? OR MINT? OR MULTISENSORY?)
S6	1718229	RIM OR RIMS OR EDGE? OR PERIPHER? OR BRIM? OR LIP OR LIPS - OR BORDER? OR MARGIN?
S7	1358611	RAISE? OR ELEVAT? OR EMBOSS? OR RELIEF? OR RECESS? OR DEPRESS? OR ENGRAV? OR ETCH? OR INSCRIB? OR INSCRIPT?
S8	5910117	LETTER? OR INDICI? OR NUMBER? OR NUMERAL? OR SHAPE? ? OR SILHOUET? OR FIGUR? OR WORD? OR OUTLIN? OR PROFIL? OR DRAWING? OR ILLUSTRAT?
S9	625801	CONTAINER? OR RECEPTACL?
S10	401441	NOZZL? OR SPOUT? OR POURSPOUT? OR (DISPENS? OR POUR?) (3N) (- TUBE? OR FUNNEL? OR CHANNEL?)
S11	542040	PIVOT? OR HING?
S12	489700	TEACH? OR EDUCAT? OR LEARN? OR LESSON? OR DRILL? OR INSTRUCT? OR TUTOR? OR TRAIN? OR SCHOOL?
S13	107332	IC=(B43L? OR G09B? OR A63H?)
S14	9514	S1:S2
S15	260	S14 AND S3
S16	6	S14 AND S4:S5
S17	6	S15 AND S7 AND S8
S18	11	S16:S17
S19	8	S18 AND (S6 OR S9:S13)
S20	11	S18:S19
S21	11	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200452

(c) 2004 Thomson Derwent

?

21/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015740100 **Image available**
WPI Acc No: 2003-802301/200375
XRPX Acc No: N03-642991

Writing tablet used as educational toy, controls display of
representation of graphic image on monitor screen, upon light beam
crossing a line segment of graphic image placed on writing area
Patent Assignee: BROOKE T L (BROO-I); BROWN F T (BROW-I); D'HOOGE H D
(DHOO-I); JELINEK L M (JELI-I); MARCH W A (MARC-I)
Inventor: BROOKE T L; BROWN F T; D'HOOGE H D; JELINEK L M; MARCH W A
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20030169237 A1 20030911 US 200294583 A 20020307 200375 B

Priority Applications (No Type Date): US 200294583 A 20020307
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20030169237 A1 9 G09G-005/00

Writing tablet used as educational toy, controls display of
representation of graphic image on monitor screen, upon light beam
crossing...

Abstract (Basic):

... An INDEPENDENT CLAIM is included for writing tablet
operating method...

... Writing tablet used as educational toy, connected to computing
device such as desktop computer, laptop computer, hand- held computer e
...

...Enhances learning effect by providing visual or audible feedback
to the user...

...The figure shows a schematic view of the writing tablet .
...

... writing tablet (100
...Title Terms: EDUCATION ;

21/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015704832 **Image available**
WPI Acc No: 2003-767025/200372
XRPX Acc No: N03-614482

Sensory feedback education tool for teaching student such as
child to read and write, has indicia disposed on writing surface to
provide additional sensory feedback to student while using tool

Patent Assignee: JAMES D (JAME-I)

Inventor: JAMES D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030194691	A1	20031016	US 2002121797	A	20020415	200372 B

Priority Applications (No Type Date): US 2002121797 A 20020415

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030194691	A1	7	B43L-001/00	

Sensory feedback education tool for teaching student such as
child to read and write, has indicia disposed on writing surface to
provide additional sensory feedback to student while using tool

Abstract (Basic):

... A raised rim (16) extends around the writing surface
(14) of a writing board (12). The rim and the writing surface
define an interior of the education tool (10) for holding a
displaceable writing medium. Indicia (32) are disposed on the
writing surface to provide additional sensory feedback to a
student while using the tool.

... The indicia include letters, numerals, or shapes that
corresponds to letters, numerals or shapes written or read by
child in a writing medium. An INDEPENDENT CLAIM is also included
for an educational device for providing visual and tactile
feedback to students learning reading and writing skills...

...For teaching student such as child to read and write by providing
visual and tactile feedback to student...

...Assists young or physically challenged children in learning to read
and write. Enables child to write with just his or her finger, without
use of chalk or pencils. Enables child to receive visual and tactile
feedback while writing in the salt. Motivates use of tool and fun
of using the tool. Enables child to see correctly formed letters,
numerals, or shapes before, during and after writing in the
writing medium. Reduces finger drag while writing...

...DESCRIPTION OF DRAWING (S...

...The figure shows the top view of the educational tool...

... Education tool (10...

... Writing board (12...

... Writing surface (14...

... Rim (16...

RELATED TO THIS APPLICATION
BY THIS INVENTOR

...Pour **spout** (18...

...Removal **spout** plug (20...

... **Indicia** (32

...Title Terms: **EDUCATION** ;

International Patent Class (Main): **B43L-001/00**

21/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011573908 **Image available**
WPI Acc No: 1997-550389/199751
XRPX Acc No: N97-458749

Tactile display for computer for blind people with finger reading skills
- has pixels made of small cylinder contg. thermal-expansion substance
and closed rigidly at bottom end and by elastic membrane at top end, with
elastic membrane serving as reading surface

Patent Assignee: TREMBLAY M (TREM-I)

Inventor: TREMBLAY M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2169198	A	19970810	CA 2169198	A	19960209	199751 B

Priority Applications (No Type Date): CA 2169198 A 19960209

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2169198	A		15	G09B-021/00	

... at bottom end and by elastic membrane at top end, with elastic
membrane serving as reading surface

...Abstract (Basic): The elastic membrane serves as the reading surface
. To raise a pixel, the corresponding electronic drivers are turned on
to activate the pixel...

...USE - For tactile feedback devices for virtual reality applications
or massaging devices...

International Patent Class (Main): G09B-021/00

21/3,K/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010221649 **Image available**
WPI Acc No: 1995-122904/199516
XRPX Acc No: N95-097163

Interactive training for digitising movements of stylus e.g. for
plotter or tracer - providing inputs from stylus of digitising tablet to
computer, and generating results on display panel for various modes of
operation, with user obeying computer prompts

Patent Assignee: PARK N S (PARK-I)

Inventor: PARK N S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5397865	A	19950314	US 93151515	A	19931115	199516 B

Priority Applications (No Type Date): US 93151515 A 19931115

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5397865	A	11	G08C-021/00	

Interactive training for digitising movements of stylus e.g. for
plotter or tracer...

...Abstract (Basic): The method of interactive training involves
providing a coordinate input device, which traces movement of a stylus
over a **writing surface** and provides stylus coordinates to computer
controller. A display screen is provided in the **writing surface**
under the stylus, and stylus coordinates over the display screen are
associated with corresp. display screen coordinates. A user is prompted
to perform a **training** exercise by the user moving the stylus over the
display screen to trace an object...

...to the stylus by the user is monitored, and compared against pre-stored
object data. **Visual feedback** is provided to the user via the
display screen indicative of the user's performance of the **training**
exercise, and pre-stored tolerances associated with the pre-stored
object data are provided. Adaptive...

...to movement of the stylus w.r.t. deviations of the user in performing
the **training** exercise...

...Title Terms: **TRAINING** ;

21/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009223518
WPI Acc No: 1992-350939/199243
XRPX Acc No: N92-267565

Handwriting recognition system using character template - recognises
elements from set of symbols and uses computer to snap strokes made by
stylus on corresp. template line segment

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: COMERFORD L D; LEVY S E

Number of Countries: 006 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 509224	A2	19921021	EP 92103845	A	19920306	199243 B
CA 2061076	A	19921020	CA 2061076	A	19920212	199302
EP 509224	A3	19930630	EP 92103845	A	19920306	199405
US 5303312	A	19940412	US 91688786	A	19910419	199414
			US 92942118	A	19920908	

Priority Applications (No Type Date): US 91688786 A 19910419; US 92942118 A 19920908

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 509224	A2	E	18	G06K-009/22	
Designated States (Regional): DE FR GB IT					
US 5303312	A		15	G06K-009/00	Cont of application US 91688786
CA 2061076	A			G06K-009/62	
EP 509224	A3			G06K-009/22	

...Abstract (Basic): The system comprises a template of line segments displayed on an electronic **writing surface** (12). A stylus is applied to the electronic **writing surface** so as to trace a desired symbol. A computer is provided to 'snap' the strokes...

...Abstract (Equivalent): a set of symbols, involves using a template of line segments displayed on an electronic **writing surface**. A stylus is applied to the electronic **writing surface** so as to trace a desired symbol. A computing arrangement is used to 'snap' the...

...Separates act of stylus input by user from process of recognition by using stage providing **visual feedback** to user. Method takes advantage of natural handwriting skills and can be used for variety...

21/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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007303749

WPI Acc No: 1987-300756/198743

XRAM Acc No: C87-127952

XRPX Acc No: N87-224680

Writing unit partic. for credit card slips - has flexible windowed cover
to overlie planar surface

Patent Assignee: DE LA RUE SYSTEMS LTD (DELR)

Inventor: FOGG M; MILES P D; SIMPSONDAV R

Number of Countries: 007 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 243115	A	19871028	EP 87303403	A	19870416	198743 B

Priority Applications (No Type Date): GB 8618819 A 19860801; GB 869665 A
19860421

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 243115	A	E	16		

Designated States (Regional): CH DE FR GB IT LI SE

...Abstract (Basic): There is pref. a member of high-friction material
forming part of the planar surface to locate the writing medium
in a given position on the surface. The member is pref. of embossed
PVC, and there is a writing detector mounted to the support and having
means for detecting indicia written on medium placed on the planar
surface. The cover pref. has an aperture for exposing a given part of
the writing medium .

Set	Items	Description
S1	4313	(READING OR WRITING) (3N) (TABLET? OR SURFACE? OR SLATE? OR - BOARD?)
S2	690	CHALKBOARD? OR BLACKBOARD?
S3	268974	WRITING (3N) (MEDIUM OR SUBSTANCE) OR SALT OR SAND OR RICE OR CORNSTARCH? OR CORN() STARCH?
S4	3282	(FEEDBACK? OR FEED?() BACK) (10N) (SENSORY OR OLFACTOR? OR AR- OMA? OR ODOR? OR ODOUR? OR SCENT? OR SIGHT? OR VISION? OR VIS- UAL? OR TOUCH? OR KINETIC?)
S5	4611	(FEEDBACK? OR FEED?() BACK) (10N) (MOVEMENT? OR MOTION? OR TA- CTIL? OR PEPPERMINT? OR MINT? OR MULTISENSORY?)
S6	685183	RIM OR RIMS OR EDGE? OR PERIPHER? OR BRIM? OR LIP OR LIPS - OR BORDER? OR MARGIN?
S7	666419	RAISE? OR ELEVAT? OR EMBOSS? OR RELIEF? OR RECESS? OR DEPR- ESS? OR ENGRAV? OR ETCH? OR INSCRIB? OR INSCRIPT?
S8	120643	LETTER? ? OR INDICI?
S9	1004213	NUMBER? ? OR NUMERAL? ?
S10	648386	SHAPE? ? OR SILHOUET?
S11	1135593	OUTLIN? OR PROFIL? OR DRAWING?
S12	1386802	ILLUSTRAT? OR FIGUR? OR WORD? ?
S13	233710	CONTAINER? OR RECEPTACL?
S14	126916	NOZZL? OR SPOUT? OR POURSPOUT? OR (DISPENS? OR POUR?) (3N) (- TUBE? OR FUNNEL? OR CHANNEL?)
S15	258634	PIVOT? OR HING?
S16	441423	TEACH? OR EDUCAT? OR LEARN? OR LESSON? OR DRILL? OR INSTRU- CT? OR TUTOR? OR TRAIN? OR SCHOOL?
S17	9185	IC=(B43L? OR G09B? OR A63H?)
S18	4902	S1:S2
S19	697	S18 AND S3
S20	133	S18 AND S4:S5
S21	19	S20 AND S3
S22	19	S21 AND S6:S17
S23	11	S19 AND S13:S14 (10N) S1:S3
S24	28	S21:S23
S25	28	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 348:EUROPEAN PATENTS 1978-2004/Aug W02

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040812,UT=20040805

(c) 2004 WIPO/Univentio

?

25/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00842226
WRITING BOARD
SCHREIBTAFEL
PANNEAU D'ECRITURE
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PATENT (CC, No, Kind, Date): EP 786358 A1 970730 (Basic)

EP 786358 A1 990203

EP 786358 B1 001220

WO 9706963 970227

APPLICATION (CC, No, Date): EP 96926647 960814; WO 96JP2300 960814

PRIORITY (CC, No, Date): JP 95231989 950817

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: B43L-001/04; B43L-021/00

ABSTRACT WORD COUNT: 155

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200051	723
CLAIMS B	(German)	200051	682
CLAIMS B	(French)	200051	769
SPEC B	(English)	200051	4219
Total word count - document A			0
Total word count - document B			6393
Total word count - documents A + B			6393

WRITING BOARD

...ABSTRACT A1

Writing boards such as electric blackboards , etc. which can erase
all the written information without wiping by the hand.

On a front surface of an endless recording medium (12) provided in the
electric blackboard (10), letters, characters, etc. are written with a
writing tool (14). As the writing tools...

25/3,K/28 (Item 28 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00161922

TACTILE IMAGING PAPER

PAPIER D'IMAGERIE TACTILE

Patent Applicant/Assignee:

TLC VENTURES INC,

Inventor(s):

TRAYLOR D R,

METZ B A,

CARTER D J,

JOHNSON R L,

CORSO A M,

PORWALL S K,

PICKETT G E,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8908302 A1 19890908

Application: WO 89US655 19890217 (PCT/WO US8900655)

Priority Application: US 88803 19880226

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT AT AU BB BE BG BJ BR CF CG CH CH CM DE DE DK FI FR GA GB GB HU IT JP

KP KR LK LU LU MC MG ML MR MW NL NL NO RO SD SE SE SN SU TD TG

Publication Language: English

Fulltext Word Count: 8145

Main International Patent Class: G09B-021/00

Fulltext Availability:

Detailed Description

Claims

English Abstract

...impaired individuals, it is a general object of the present invention to provide a novel **writing surface** which allows interactive communication with the visually impaired and minimizes or reduces the problems encountered...

...is an additional object of the invention to provide a method for producing such a **writing surface**. It is also an object of this invention to provide a writing kit comprising the aforementioned **writing surface** and a specially adapted writing fluid. More particularly, this invention provides a writing material suitable...

Detailed Description

... generally to a novel type of paper which is capable of expanding to produce a **raised** pattern when written on with a special writing fluid. It is believed that this invention...

...impaired, and those of early childhood years,
In the past, several methods for producing a **raised** pattern which can be "read" with the fingertips have been used to facilitate non...

...of this invention to provide visually handicapped individuals with tactile representations.

or impressions in **relief** of **illustrations**, text maps#, graphics, or **drawings** that are visible to the sighted.

At the present time, Braille is the most widely...

...columns and three rows, Depend

2

ing on which dot or combination of dots is **raised**, **letters**, **numbers**, **words** or phrases are denoted. Despite its wide acceptance, Braille has a **number** of disadvantages. For example, using a slate and stylus to write in Braille requires...

...transferring both verbal

and non-verbal information. For example, models constructed using string, wire, **sand**, balsa wood, and the like have been used to convey information related to spacial orientation...

...thin metal, such as an aluminum pie plate, with a sharp instrument thereby making a **raised** impression on the reverse side. A limitation of this process is that it requires a mirror image thought process to make the **drawing**. Furthermore, most often a tactile display of this type is made by a sighted person...alcohol in a coating and uses an expensive instrument to darken areas designed to be **raised**. The paper is then heated so that the alcohol boils more quickly in the darkened areas. These darkened areas then expand to produce a **relief** image that can be felt. However, like the Thermoform device described above, this process pro...

...for tactile

evaluation by the blind. No communicative interaction exists in the development of the **relief** image. Also, each sheet of capsule paper is quite expensive.

Another rather crude device that does allow at least a degree of interactive communication is called the Sewell **Drawing Kit**. This device consists of a board with a reasonably hard rubber surface and clips...

...skills are required and a rather delicate sense of touch is required to "read" the **illustration**.

Yet another device, the Sensory Quill (US Patent No. 3,855,707) is a...

...stylus about the paper surface to produce, in the path of the stylus, an immediate, **raised** line. The limitations of this device include cost, size, and noise of operation. However, it...

...the first time.

Thus, the long standing need for a convenient and reasonably inexpensive **writing surface** allowing interactive, non-oral communication with visually impaired individuals can be readily appreciated. The...

...to write scripTr at least enough to sign their own names. As they attempt to learn such a skill now, with the exception of the crude Sewell Kit and the expensive Sensory Quillf nothing gives tactile feed back . Also, many blind persons have had sight . They know how to write or draw and are accustomed to such communication. With the novel writing surface provided by the present invention, they can continue practice of such skills conveniently and inexpensively. In the school setting, sighted students often must explain their understanding of a topic or concept of graphing, illustrating or drawing . With the novel writing surface embodied by the present invention, this can be done spontaneously, easily, and inexpensively. In addition, drawings of mobility maps, illustrating routes and buildings, can be accomplished easily. Layouts of building interiors, showing hallways, rooms...

...if confusion occurs. In addition, the ease of production and relatively low cost of the writing surface of the present invention will provide the blind with illustrations, graphs and diagrams similar...

...presently available only in textbooks for the sighted.

In addition, the present invention allows the raised 35 line to be colored. This enables those with low vision to see it. If the line is raised , the tactual reinforcement relieves some eye strain and reduces confusion. Furthermore, the presence of a...

...with the sighted, Long it has been known and understood that kinesthetic experiences enhance learning . Particularly in the early years of preschool, kindergarten, and the lower elementary school grades, tactile-sensory techniques and materials are used frequently to reinforce the learning experience of sighted, non-handicapped children. The present invention will be employed and utilized to...

...skills, utilizing the kinesthetic experience, of non handicapped persons of early childhood and elementary grade school years* Recognizing the need for facilitating interactive, non-oral communication with visually impaired individuals, it is a general object of the present invention to provide a novel writing surface which allows interactive communication with the visually impaired and minimizes or reduces the problems...

...an additional object of the invention to provide a method for producing such a writing surface . it is also an object of this invention to provide a writing kit comprising the aforementioned writing surface and a specially adapted writing fluid. more particularly, this invention provides a writing material suitable...

...further embodiment, the carboxymethylated cellulose has about 65-70% of all COOH groups in sodium **salt** form, And, in a still further embodiment, the carboxymethylated cellulose is internally cross-linked, is...other cellulosic fibers. Of course, as those of skill in the art will recognize, a **number** of wood pulp papermaking fibers may be used, for example, hardwood and softwood fibers, mixed...

...Q
is Other aspects of the invention relate to the writing fluid applied to the **surface** of the **writing** material. In general, this fluid may comprise any liquid capable of causing expansion of the...

...a colored pattern, -Of course, those skilled in the art will appreciate that a **number** of coloring agents, including reactive leuco-type, pH-indicating, and other color forming dyes, as...

...will prove advantageous. Accordingly, the present invention provides a writing material with a first or **writing** **5 surface** as described previously which also has a second surface having a backing material attached thereto...per gram, carboxymethylated cellulose fibers having about 65-70% of all COOH groups in sodium **salt** form, carboxymethylated cellulose fibers 35 internally cross-linked essentially insoluble in aqueous solutions and having...

...achieve a final product having a moisture content between 3% and 10%. Of course, a **number** of papermaking machines known to those of skill in the art could be employed particularly...for a writing kit. This kit comprises a carrier, compartmentalized to receive one or more **container** means in close confinement therein, a first **container** means comprising the novel writing material of the present invention, and a second **container** means comprising writing fluid. In addition, the kit may comprise an aqueous writing fluid, a...

...5 defined as a pen.

It will thus be appreciated that a new and improved **writing surface** has been described which allows interactive, non-oral communication with, for example, blind and visually impaired individuals, Those with other **learning** disabilities such as dyslexia, mental retardation, and brain damage will benefit from this interactive communication material. Persons with no handicap of early childhood and early **school** years will benefit from the tactile experience as a sensory reinforcement in a kinesthetic **learning** setting.

The surface comprises a cellulosic substrate formed into a sheet having at least a...

...sheet

is characterized in that when a pattern of writing fluid is applied to this **surface**, for example by **writing** on the sheet, the cellulosic substrate absorbs the writing fluid and expands or swells. Of...

...the tactually readable pattern need not be complex, It may be as simple as a **raised** line, even a point or a series of points. All that is required is that the **raised** pattern correspond to and be readable as the pattern of writing fluid applied.

In addition...material for forming the sheet of writing material. Al
As stated abovef application of a **writing** fluid to the **surface** of the sheet produces an expansion of the substrate contacted by the fluid. This expansion...

...as usedf be non-toxic.

1 0

In practicef one will often desire that the **raised** pattern be colored so as to enable it to be readily detected by visual means...

...used. However, a water soluble dye is a preferred coloring agent, As stated previously, the **raised** pattern need not remain absolutely unchanged on drying of the writing fluid* In factr it...

...in the writing fluid an agent designed to improve or preserve the integrity of the **raised** pattern, Therefore the present invention encompasses a means for hardening or stiffening the **raised** pattern. Of course, there are a **number** of agents likely to harden or stiffen fibrous substrates which could prove suitable for use...

...such as a backing is applied. The coating may be constructed of any of a **number** of materials, provided however, that the backing is substantially unaffected by the writing fluid so that the **raised** pattern is primarily expressed on the first surface. Therefore, as a general matter, a preferred...

...backing may be applied to the second surface of the sheet by any of a **number** of methods, the most satisfactory results will generally be obtained when the entire area of...

...or is bonded or laminated to the backing. Although this may be achieved by a **number** of methods generally known to those of skill in the arttr a spray adhesive provides...

...Although a method for accomplishing this step comprises vacuum filtration in a Buchner funnel, a **number** of other filtration methods and devices may be substituted, For examplef filtration without vacuum, or alternativelyf filtration in a system where the **container** holding the slurry is pressurized are also acceptable, Alternatively, the slurry may be delivered ontoIn an additional preferred

embodiment, the newly formed sheet is air dried at slightly **elevated** or ambient temperatures for example, from approximately 18-500C.

An even more preferred method for producing the sheet comprises forming the substrate on a papermaking machine.

A **number** of papermaking machines known to those of skill in the art may be used for...

...as described previously and may optionally include a means for transferring the fluid to the **surface** of the **writing** material.

In general, the kit comprises a carrier, such as a box, compartmentalized to receive one or more **container** means, the first of which includes a **container** means comprising the previously described writing material. Virtually any means sufficient to contain the writing material will suffice, however, a preferred **container** is a tray having a flat bottom surface corresponding in size to the sheets of...

...standing perpendicular to the plane of the bottom surface.

In addition, the kit includes a **container** for the writing fluid. Again, any **number** of possible **containers** like bottles, jars, cans, etc. may be used. Of course, it is preferred that the **containers** be compatible with the type of writing instrument to be used. For example where a calligraphy pen is used to transfer the **writing** fluid to the **surface** of the **writing** material, the mouth of the **container** should be wide enough to accommodate the pen.

In contrast, where a cartridge pen is used, the **container** could simply be a cartridge.

Finally the kit may optionally include a writing means. In general, almost any writing means capable of transferring sufficient **writing** fluid to the **surface** of the **writing** material to produce the expansion of the substrate, and cause the formation of the **raised** pattern readable by touch is acceptable. Such implements include 35 but are not limited to...

...is the preferred writing implement,
Finally, the invention provides a method for creating a **raised** image readable by touch. This method generally comprises providing a sheet of writing material like...

...that the portion of the sheet contacted with the writing fluid expands to produce a **raised** pattern readable by touch. Of course, the pattern of the expansion will correspond to the writing fluid may be applied with any **number** of writing implements ranging, for example, from a simple pen to a plate of printing...

...paper machine and evaluated for response time to activation and dimension and permanence of the **raised** pattern.

The results of these investigations are summarized in the following paragraphs, In all cases...

...to the dried sheet with a writing instrument. The substrate expanded immediately to produce a **raised** pattern that could be read by touch.

Although this pattern remained readable by touch after...

...activated the substrate immediately and dried quickly. In addition, this writing fluid produced a **raised** pattern that remained readable by touch for an indefinite period.

In addition, in one experiment...

...This backing (adhesive coating and polyester film) tended to increase the height of the **raised** pattern since expansion of the fibers was forced upwards. The backing also helped to preserve...IN THE LUMTORY* STAWH

SAMPLE HANDSHEET FIBER TYPE CAYCIUM KAOLIN SILICA SILICA STAMIST WATERL(C
NUMBER AWALON C EUCALYPTUS HARDWOM CARBONATE CIAY M-5 R-972 515 POWDER
42448 1 50...the invention in accordance with the requirements of the Patent Statutes for the purposes of **illustration** and explanation. It will be apparent, however, to those skilled

Claim

... applied to the first surface in a desired pattern, an expansion occurs to produce a **raised** pattern readable by touch, wherein said pattern is readable by touch as the pattern in...

...wherein the carboxy methylated cellulose has about 65-70% of all COOH groups in sodium **salt** form. 5e The writing material of claim 2 wherein the carboxy methylated cellulose is internally...applied to the first surface in a desired pattern, an expansion occurs to produce a **raised** pattern readable by touch, wherein said pattern is readable by touch as the pattern in...

...26 wherein the carboxymethylated cellulose has about 65-70% of all COOH groups in sodium **salt** form.

29 The method of claim 26 wherein the carboxymethylated cellulose is internally cross-linked...or others benefitting from tactile stimulations comprising: carrier being compartmentalized to receive one or more **container** means in close confinement therein;

first **container** means comprising the writing material of claim 1; and a second **container** means comprising a writing fluid.
53 The writing kit of claim 52 wherein the writing...

...wherein the hardening substance is a polysaccharide and the writing fluid comprises inorganic pigment or **salt** .

57 The writing kit of claim 55 wherein the writing fluid comprises dissolved starch.

58...means for applying the writing fluid to the material.

60e A method for producing a **raised** pattern readable by touch comprising:

is

providing a sheet of writing material formed from a...

...that the

portion of the sheet contacted with the writing fluid expands to produce a **raised** pattern readable by touch, wherein said pattern is readable by touch as the pattern in...

Set	Items	Description
S1	1655	(READING OR WRITING) (3N) (TABLET? OR SURFACE? OR SLATE? OR - BOARD?)
S2	7300	CHALKBOARD? OR BLACKBOARD?
S3	788454	WRITING (3N) (MEDIUM OR SUBSTANCE) OR SALT OR SAND OR RICE OR CORNSTARCH? OR CORN() STARCH?
S4	17238	(FEEDBACK? OR FEED?() BACK) (10N) (SENSORY OR OLFACTOR? OR AR- OMA? OR ODOR? OR ODOUR? OR SCENT? OR SIGHT? OR VISION? OR VIS- UAL? OR TOUCH? OR KINETIC?)
S5	11302	(FEEDBACK? OR FEED?() BACK) (10N) (MOVEMENT? OR MOTION? OR TA- CTIL? OR PEPPERMINT? OR MINT? OR MULTISENSORY?)
S6	1818725	RIM OR RIMS OR EDGE? OR PERIPHER? OR BRIM? OR LIP OR LIPS - OR BORDER? OR MARGIN?
S7	2060048	RAISE? OR ELEVAT? OR EMOSS? OR RELIEF? OR RECESS? OR DEPR- ESS? OR ENGRAV? OR ETCH? OR INSCRIB? OR INSCRIPT?
S8	441319	LETTER? ? OR INDICI?
S9	4054367	NUMBER? ? OR NUMERAL? ?
S10	1159333	SHAPE? ? OR SILHOUET?
S11	2150113	OUTLIN? OR PROFIL? OR DRAWING?
S12	1729305	ILLUSTRAT? OR FIGUR? OR WORD? ?
S13	208003	CONTAINER? OR RECEPTACL?
S14	96520	NOZZL? OR SPOUT? OR POURSPOUT? OR (DISPENS? OR POUR?) (3N) (- TUBE? OR FUNNEL? OR CHANNEL?)
S15	86774	PIVOT? OR HING?
S16	5848791	TEACH? OR EDUCAT? OR LEARN? OR LESSON? OR DRILL? OR INSTRU- CT? OR TUTOR? OR TRAIN? OR SCHOOL?
S17	8926	S1:S2
S18	27	S17 AND S3
S19	19	S17 AND S4:S5
S20	46	S18:S19
S21	39	S20 AND S6:S16
S22	46	S20:S21
S23	40	RD (unique items)
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Set	Items	Description
S1	13362	(READING OR WRITING) (3N) (TABLET? OR SURFACE? OR SLATE? OR - BOARD?)
S2	34580	CHALKBOARD? OR BLACKBOARD? OR (CHALK OR BLACK) () BOARD?
S3	1547038	WRITING (3N) (MEDIUM OR SUBSTANCE) OR SALT OR SAND OR RICE OR CORNSTARCH? OR CORN () STARCH?
S4	8511	(FEEDBACK? OR FEED? () BACK) (5N) (SENSORY OR OLFACTOR? OR AROMA? OR ODOR? OR ODOUR? OR SCENT? OR SIGHT? OR VISION? OR VISUAL? OR TOUCH? OR KINETIC?)
S5	5752	(FEEDBACK? OR FEED? () BACK) (5N) (MOVEMENT? OR MOTION? OR TACTIL? OR PEPPERMINT? OR MINT? OR MULTISENSORY?)
S6	13600825	RIM OR RIMS OR EDGE? OR PERIPHER? OR BRIM? OR LIP OR LIPS - OR BORDER? OR MARGIN?
S7	8417287	RAISE? OR ELEVAT? OR EMBOSS? OR RELIEF? OR RECESS? OR DEPRESS? OR ENGRAV? OR ETCH? OR INSCRIB? OR INSCRIPT?
S8	3068392	LETTER? OR INDICI?
S9	15317629	NUMBER? OR NUMERAL?
S10	1783904	SHAPE? ? OR SILHOUET?
S11	5948830	OUTLIN? OR PROFIL? OR DRAWING?
S12	10113933	ILLUSTRAT? OR FIGUR? OR WORD? .?
S13	833480	CONTAINER? OR RECEPTACL?
S14	94545	NOZZL? OR SPOUT? OR POURSPOUT? OR (DISPENS? OR POUR?) (3N) (- TUBE? OR FUNNEL? OR CHANNEL?)
S15	578344	PIVOT? OR HING?
S16	17323975	TEACH? OR EDUCAT? OR LEARN? OR LESSON? OR DRILL? OR INSTRUC- CT? OR TUTOR? OR TRAIN? OR SCHOOL?
S17	47557	S1:S2
S18	3396	S17 AND S3
S19	73	S17 AND S4:S5
S20	2	S19 AND S18
S21	73	S19:S20
S22	72	S21 AND S6:S16
S23	73	S21:S22
S24	45	RD (unique items)

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